

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claims 1-2 (canceled).

Claim 3 (new): A projection system comprising:
an oscillating mirror;

a laser light source, wherein a projection light bundle is produced starting from the light source using the oscillating mirror, and wherein by at least one light sensor is arranged at the edge region of the projection light bundle and detects the position of the oscillating mirror.

Claim 4 (new): The projection system as claimed in claim 3, wherein the brightness of the projection light bundle is modulated at least in a partial region of an image to be projected and the position of the oscillating mirror is determined by correlating the modulation of the projection light bundle and of a detector signal from the light sensor.

Claim 5 (new): A method for operating a projection system,
comprising:
obtaining a brightness level from a light sensor;
modulating the brightness at least in a partial region of an image to be projected in the projection system; and
detecting the oscillation status and position of an oscillating mirror using the light sensor.

Claim 6 (new): The method according to claim 5, wherein the position of the oscillating mirror is determined by correlating the modulation with a detector signal generated from the light sensor.